

## SDF-2 (m): 293T Lysate: sc-125967

### BACKGROUND

Secretory proteins, such as enzymes, hormones and toxins, are exported by the cell into either ducts (exocrine) or the bloodstream (endocrine). Once secreted, these proteins have a variety of functions within the cell and are involved in signaling pathways, immune responses and hormone regulation. SDF-2 (stromal cell-derived factor-2) is a 211 amino acid protein that contains three MIR domains. Expressed throughout the body, SDF-2 shares 92% sequence similarity with its mouse counterpart and is thought to function as a secretory protein. Due to the high similarity between SDF-2 and its corresponding mouse protein, SDF-2 may have a conserved function among mammals.

### REFERENCES

1. Hamada, T., et al. 1996. Isolation and characterization of a novel secretory protein, stromal cell-derived factor-2 (SDF-2) using the signal sequence trap method. *Gene* 176: 211-214.
2. Wang, N., et al. 1999. SDF-2 induction of terminal differentiation in *Dictyostelium discoideum* is mediated by the membrane-spanning sensor kinase DhkA. *Mol. Cell. Biol.* 19: 4750-4756.
3. Fukuda, S., et al. 2001. Murine and human SDF2L1 is an endoplasmic reticulum stress-inducible gene and encodes a new member of the Pmt/rt protein family. *Biochem. Biophys. Res. Commun.* 280: 407-414.
4. Meunier, L., et al. 2002. A subset of chaperones and folding enzymes form multiprotein complexes in endoplasmic reticulum to bind nascent proteins. *Mol. Biol. Cell* 13: 4456-4469.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602934. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Kinseth, M.A., et al. 2007. The Golgi-associated protein GRASP is required for unconventional protein secretion during development. *Cell* 130: 524-534.
7. Arinami, T. 2006. Analyses of the associations between the genes of 22q11 deletion syndrome and schizophrenia. *J. Hum. Genet.* 51: 1037-1045.

### CHROMOSOMAL LOCATION

Genetic locus: Sdf2 (mouse) mapping to 11 B5.

### PRODUCT

SDF-2 (m): 293T Lysate represents a lysate of mouse SDF-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

### APPLICATIONS

SDF-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SDF-2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.